Instructor: Dr. Eamonn Tweedy
Office: Hermann Brown (HBH) 444
Email: eamonn@rice.edu

Lecture Times: MWF 9:00-9:50am
Classroom: Hermann Brown Hall (HBH) 227
Office Hours: M 2:30-3:30pm, W 5-6pm

TA Recitations: The TA for this course is Arunima Ray. Help sessions will be **7-9pm on Tuesdays in Hermann Brown (HBH) 427**. The first session will be on January 17.

Class Webpage: Look for **Math 112 001 Sp12** on **OWL-Space**.

1. **Textbook:** We'll use *Calculus Early Transcendentals 6E* by James Stewart. The campus bookstore has a custom-made book for Rice (ISBN: 9781111699314), which includes a WebAssign membership. If you don't buy this custom edition, you'll have to purchase a WebAssign account separately.

2. **Homework:** The homework will have two components - WebAssign problems and textbook problems (which will be assigned on OWL-Space).

	Due by...	Where/how to submit	First one due on ...
WebAssign HW	W at **9pm**	Online	1/18/2012
Written HW	W at **6pm**	My office **or** in class	1/18/2012

Please note:

- **Late homework assignments will only be accepted in the case of a university-excused absense!** Instead, your lowest WebAssign score and your lowest written assignment score will be dropped.
- You're responsible for obtaining a WebAssign account and becoming familiar with the WebAssign system as soon as possible.
- The WebAssign.net key for this course is: **rice 9489 6055**
- I **strongly recommend** that you maintain a notebook in which you work out Web Assign problems on paper. This will be very helpful when you're studying for exams!
- Homework is not pledged, and collaboration is allowed. However, make sure that you understand the solution to a problem before typing it into WebAssign. Also, your solutions to the written problem sets must be your own.

3. **Exams:** There will be two midterm exams and a **cumulative** final exam:

Midterm 1	Wednesday, February 15 (in class)
Midterm 2	Wednesday, March 28 (in class)
Final Exam	TBA

The Office of the Registrar has not yet scheduled the final exam. No final may be given early to accommodate student travel plans. If your travel plans turn out to conflict with the final exam date, then it is your responsibility to either change them or take a zero on the final.

Please note:

- **Make-up exams will only be allowed in the case of a university-excused absence or documented medical emergency** (in those cases, please let me know as soon as possible).
- Books, notes, and calculators **will not be allowed on exams**.

4. **Grades:** Your grade will be computed via the following scheme:

   20% HW + 20% Midterm 1 + 20% Midterm 2 + 40% Final Exam

5. **Expectations:** I expect you to:

   - Attend lecture and arrive on time.
   - Stay informed of announcements made during class, via email, and on OWL-Space.
   - Listen actively in class and take notes. Don't be afraid to ask questions!
   - Dedicate sufficient time outside of class to studying and completing homework.
   - Use your resources when questions arise (e.g. TA recitations, office hours, and your fellow students). Don't wait until an exam is looming!

   I understand that conflicts will arise and you'll sometimes need to miss class. I won't judge you for being absent, but I expect you to take responsibility for catching up outside of class and having your assignments in on time.

   Honor Code: You should be familiar with the Rice University Honor Code (the Handbook can be found at `http://honor.rice.edu/honor-system-handbook/`). **Both midterm exams and the final exam will be pledged.**

   Disability Support: If you have a documented disability and need special accommodations, please contact Disability Support Services in the Allen Center **during the first two weeks of class.** All discussions with me regarding such arrangements will remain as confidential as possible.

   Disclaimer: I reserve the right to make changes to this syllabus and to course policies during the semester. Such changes will be announced in lecture when they are made.

Tentative Lecture Schedule:

Week 1
M, 01/09: Section 5.1: Areas and Distances, part I
W, 01/11: Section 5.1: Areas and Distances, part II
F, 01/13: Section 5.2: The Definite Integral, part I

Week 2
M, 01/16: No class, Martin Luther King, Jr. Day
W, 01/18: Section 5.2: The Definite Integral, part II
F, 01/20: Section 5.2: The Definite Integral, part III

Week 3
M, 01/23: Section 4.9: Antiderivatives
W, 01/25: Section 5.3: The Fundamental Theorem of Calculus, part I
F, 01/27: Section 5.3: The Fundamental Theorem of Calculus, part II

Week 4
M, 01/30: Section 5.4: Indefinite Integrals
W, 02/01: Section 5.5: The Substitution Rule, part I
F, 02/03: Section 5.5: The Substitution Rule, part II

Week 5
M, 02/06: Chapter 5 Review
W, 02/08: Section 6.1: Areas Between Curves, part I
F, 02/10: Section 6.1: Areas Between Curves, part II

Week 6
M, 02/13: Review for Midterm Exam I
W, **02/15: Midterm Exam I (in class)**
F, 02/17: Section 6.2: Volumes, part I

Week 7
M, 02/20: Section 6.2: Volumes, part II
W, 02/22: Section 6.2: Volumes, part III
F, 02/24: Section 6.2: Volumes, part IV

SPRING BREAK: February 25 - March 4

Week 8
M, 03/05 Section 6.3: Cylindrical Shells, part I
W, 03/07: Section 6.3: Cylindrical Shells, part II
F, 03/09: Section 6.3: Cylindrical Shells, part III

Week 9
M, 03/12: Section 6.5: Average Value of a Function
W, 03/14: Chapter 6 Review
F, 03/16: Section 7.1: Integration by Parts, part I

Week 10
M, 03/19: Section 7.1: Integration by Parts, part II
W, 03/21: Section 7.1: Integration by Parts, part III
F, 03/23: No class, Midterm Recess

Week 11
M, 03/26: Review for Midterm Exam II
W, 03/28: Midterm Exam II (in class)
F, 03/30: Section 7.2: Trigonometric Integrals, part I

Week 12
M, 04/02: Section 7.2: Trigonometric Integrals, part II
W, 04/04: Section 7.3: Trigonometric Substitution, part I
F, 04/06: Section 7.3: Trigonometric Substitution, part II

Week 13
M, 04/09: Section 7.4: Partial Fractions, part I
W, 04/11: Section 7.4: Partial Fractions, part II
F, 04/13: Section 7.4: Partial Fractions, part II

Week 14
TBA